



# IUID Implementation



**6 April 2010**

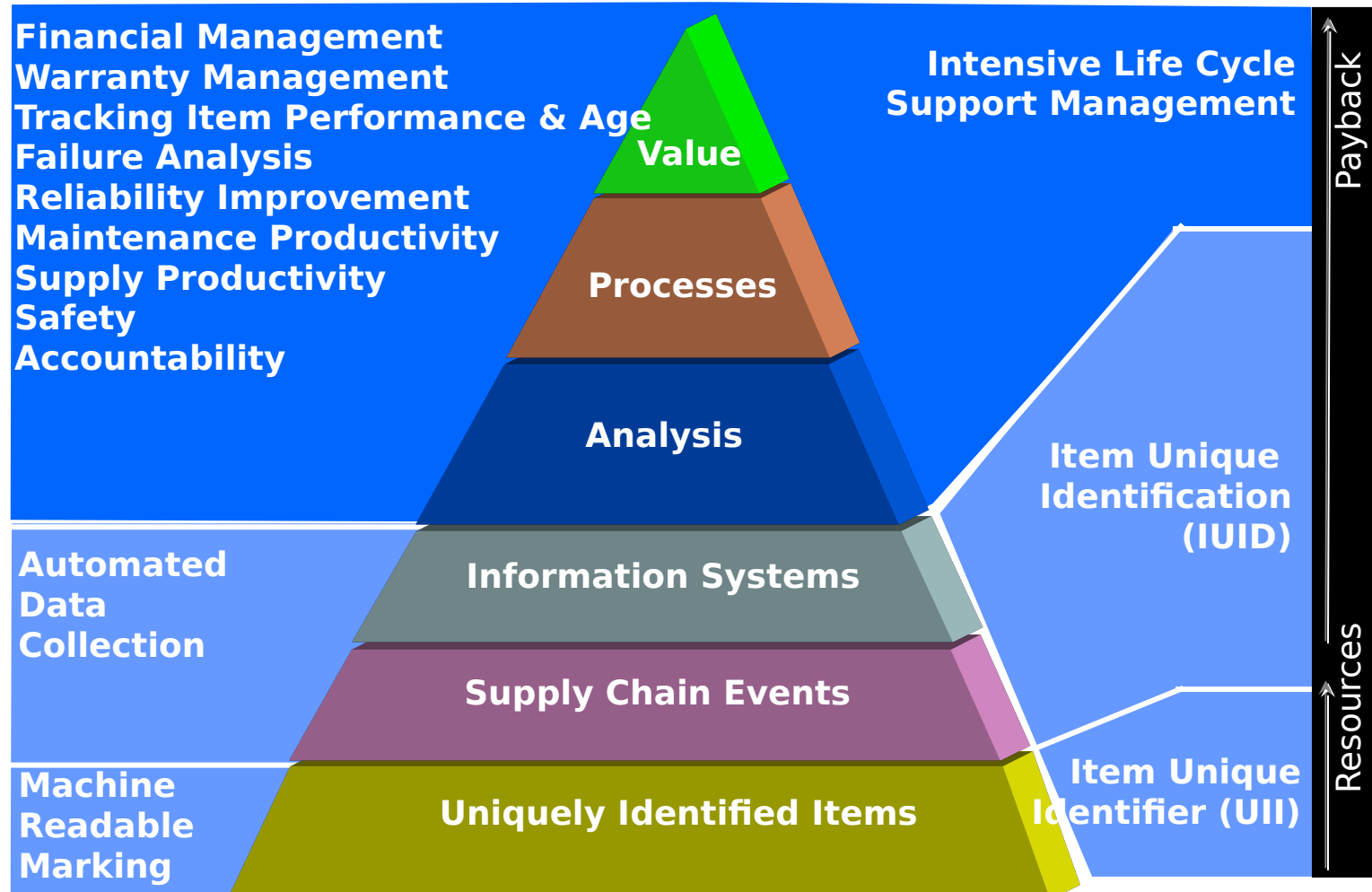


# IUID Enabled Life Cycle Support Management

*Capabilities*

*Requirements*

*Objectives*



# Marking the Equipment

- New Acquisitions
  - DFARS 252.211
- Legacy Equipment Marking
  - Process
    - Pedigree data
    - Engineering analysis/Marking Instructions
    - Produce/apply Unique Item Identification (UII) labels
    - Populate registry, Temporarily Data Store (TDS), and maintain UII data until GCSS-MC transition.

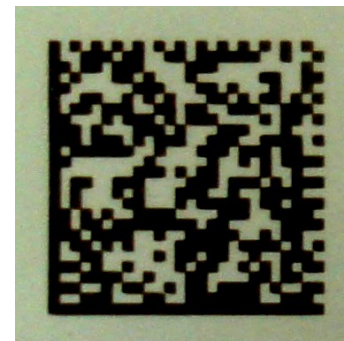
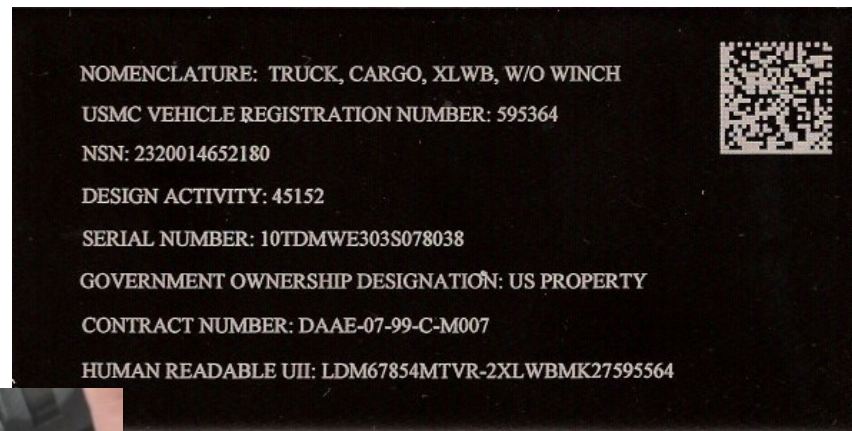


# Marking the Equipment (cont.)

- Legacy Equipment Marking
  - Strategy
    - Enterprise approach
    - Centrally funded
  - Seek and Apply in Operating Forces
    - III MEF, II MEF & I MEF, & MFR Mission Essential, Phase I (MEP-1)
    - PEI and SECREP selection methodology
    - IUID Site Managers (ISM) at Reparable Issue Points
    - Streamlined Marking Instructions
      - No Engineering Change Proposals (ECPs) or Technical Instructions (TI) if possible
      - PM's retain authority
    - Labels/Adhesive
    - Data to USMC TDS/OSD Registry



# Seek-and-Apply Marking




# Marking Instructions

NSN: 2320-01-176-6928  
NSN: 2320-01-417-8144

NOMEN: TRAILER, MK15  
NOMEN: TRAILER MK15A1

TAMCN: D08777K  
TAMCN: D08777K  
Change 1  
November 24, 2009

 Subj: UNIQUE ITEM IDENTIFIER (UII) MARKING LOCATION OF THE TRAILER,  
WRECKER/RECOVERY, 4 X 4 MK15 AND MK15A1

- Ref: A. Message (unclass) 111632Z Feb 09, subject: Identify MCSC, PG-09 as Office of Primary Responsibility for MC IUID.  
B. Memorandum (unclass) dated 4 June 09, subject: Application Instructions for Aluminum Unique Item Identifier Labels.  
C. Message (unclass), subject: MARCORSYSCOM Item Unique Identification Marking Instructions for Legacy Ground Equipment Principal End Items and Secondary Repairables (SECREPs).  
D. Message (unclass) draft, subject: Marine Corps Temporary Data Storage and Management for Item Unique Identification.


Information: Equipment will be marked with UII labels per Department of Defense Instruction (DoDI) 8320.04 per reference A. This memorandum describes the location and size of the UII label as well as any SECREPs belonging to the Principal End Item (PEI). Application guidance pertaining to the UII label is set forth in reference B in the application procedure memorandum.

Major Item Affected:

<u>Description</u>	<u>NSN</u>	<u>TAMCN</u>	<u>ID No.</u>
MK15	2320-01-176-6928	D08777K	08782A
MK15A1	2320-01-417-8144	D08777K	08782B

Materiel Required:

<u>Description</u>	<u>Qty</u>
1.50"L x 0.75"W x 0.020"H matte black aluminum UII label with pressure sensitive adhesive. NOTE: The adhesive must be appropriate for the surface being marked, i.e. CARC painted.	1 per

 Marking Location: Center and place the aluminum UII label with the long side against the existing data plate behind the equipment box on the front left side of the Trailer as shown in Figure 2.





# Marking Instructions (cont.)

NSN: 2320-01-176-6928  
NSN: 2320-01-417-8144

NOMEN: TRAILER, MK15  
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Change 1



Figure 1. TRAILER, POWERED, WRECKER/RECOVERY, 4 X 4 MK15 AND MK15A1

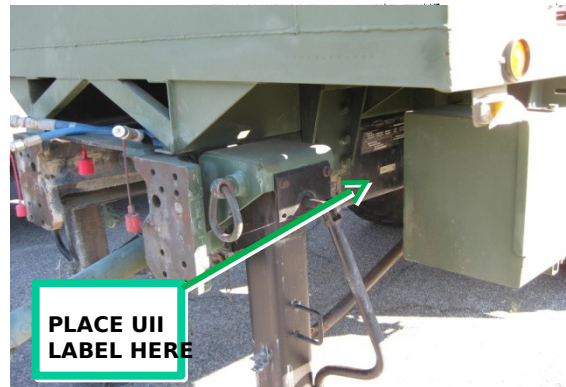


Figure 2. PLACEMENT OF THE UII LABEL ON THE MK15 AND MK15A1

Recording the Installation: Follow the current procedures for registration of the UII and its pedigree data to ensure that the appropriate data is uploaded to USMC Temporary Data Storage (TDS) per references C and D.

## Associated SECREPS:

<u>Nomenclature</u>	<u>NSN</u>	<u>Part No.</u>	<u>Status</u>
# 3 Axle Assembly	2530-01-183-7325	1363590U	TBD
#4 Axle Assembly	2530-01-184-5563	1363600U	TBD



# Marking the Equipment (cont.)

- Legacy Equipment Marking
  - Base Property
    - Via DPAS
    - In conjunction with inventories
    - Fewer label durability issues than tactical items
  - Maintenance Centers
    - Items in work and SECREPs exposed in work
    - Requires PM/SOWs
  - MPF/BIC Marking





# Maintenance Centers

## - HMMWV: PEI, Engine and Transmission



# Using the UII

- Dictated by OSD, DON & MCO 4410.28 Item Unique Identification (IUID):  
Signed - 1 Feb 2010
- Working with OSD UID Policy Office to develop capability to use IUID to track GFP between USMC and contractor using DLMS 856 transactions
- GCSS-MC
- Joint Asset Maintenance Integrated Support System (JAMISS)
- Automated Armory
- Light Armored Vehicle (LAV) deployment



# JAMISS

## JAMISS High overview Capabilities

- Systemic Data
- **Asset Control / Visibility / Tracking**
- **Asset Total Life Cycle Management**
- Parent Child Relationships
- **Simplified Inventory Management**
- Detailed Information
- Documentation
- Parts Tracking / Usage
- Maintenance
- **IUID Bar Code / RFID**
- **CAC Secure Login / Biometric**
- **Paperless Transactions**
- Tele-Maintenance
- Enables Prognostics
- Training
- Quality Assurance Business Rules
- **Enterprise to Local Usage**
- Calibration
- SME Collaboration (TechCam)
- Web Based Interface and Web Services
- Designed for High / Low / Disconnected Environments
- Sharepoint Portal Interface
- **World Wide Visibility**
- **Reporting**



# Armory Automation

- ❑ **Marine Corps Enterprise Solution for Armory Automation to improve accountability of weapons, optics, and other and arms rooms items.**
  - ❑ **This system will utilize Item Unique Identification (IUID), Common Access Card (CAC), and biometrics to automate armory procedures, including issue/receipt and inventory and reporting.**
  - ❑ **Provides automated ability across the USMC to track custody, status and location of arms rooms items - both within armories, and issued.**
  - ❑ **Application of these technologies in USMC pilot projects to significantly increase accuracy of armory processes and increased armory inventories**
  - ❑ **Enables maintenance and usage data collection in support of Condition Based Maintenance (CBM+)**



# Armory Pilot Results Summary

## Initial Equipment Issue Results Summary

Metric	Manual Process	Automated Process	Delta
Time / Student	> 34 Hours	< 1 Hour	>= 33 Hours Reduction
Reporting Accuracy	< 80%	98%	>= 18%

## Subsequent Equipment Issue/Recovery Results Summary

Metric	Manual Process	Automated Process	Delta
Time / Student	Avg. 75 Seconds	Avg. 30 Seconds	45 Seconds / Student
Reporting Accuracy	< 80%	98%	>= 18%
Data Quality	< 83%	98%	>= 15%

**Weapon Log**

Serial Number	Common Name	Issued To
10319790	M16A4 Rifle	Joshua B Cage
10319795	M16A4 Rifle	Alberto O Camacho
10319799	M16A4 Rifle	Robert T Camp
10319805	M16A4 Rifle	Mark F Campbell
10319811	M16A4 Rifle	Fernando B Campos
10319816	M16A4 Rifle	Anithony S Carballo
10319823	M16A4 Rifle	Ioan V Cardos
10319826	M16A4 Rifle	Joshua A Carpio

Assets with this Asset

Rack	Common Name	Serial Number
138	M16A4 Rifle	10319805
0	A4 RCD	281293

Checked Out List

Drawn By	Date Out	Recovered By	Date In	Who Recorded	System Ver
Mark F Campbell	7/23/200...	Jason Hill	7/24/200...	Eugene J Carle	SCANNED
Mark F Campbell	7/21/200...	Joshua O Walker	7/22/200...	Joshua M Utto	SCANNED
Mark F Campbell	7/17/200...	Joshua M Utto	7/20/200...	Joshua M Utto	SCANNED
MATTHEW B CLARKE	6/16/200...	Joshua O Walker	6/19/200...	Joshua M Utto	SCANNED
MATTHEW B CLARKE	6/5/2009...	Eugene J Carle	6/6/2009...	Joshua O Walker	SCANNED

Scan Barcode:

Checked Out Now

Date / Time Checked Out: 7/26/2009 3:43:14 PM

Who Checked Out: Mark F Campbell

Who recorded: Eugene J Carle

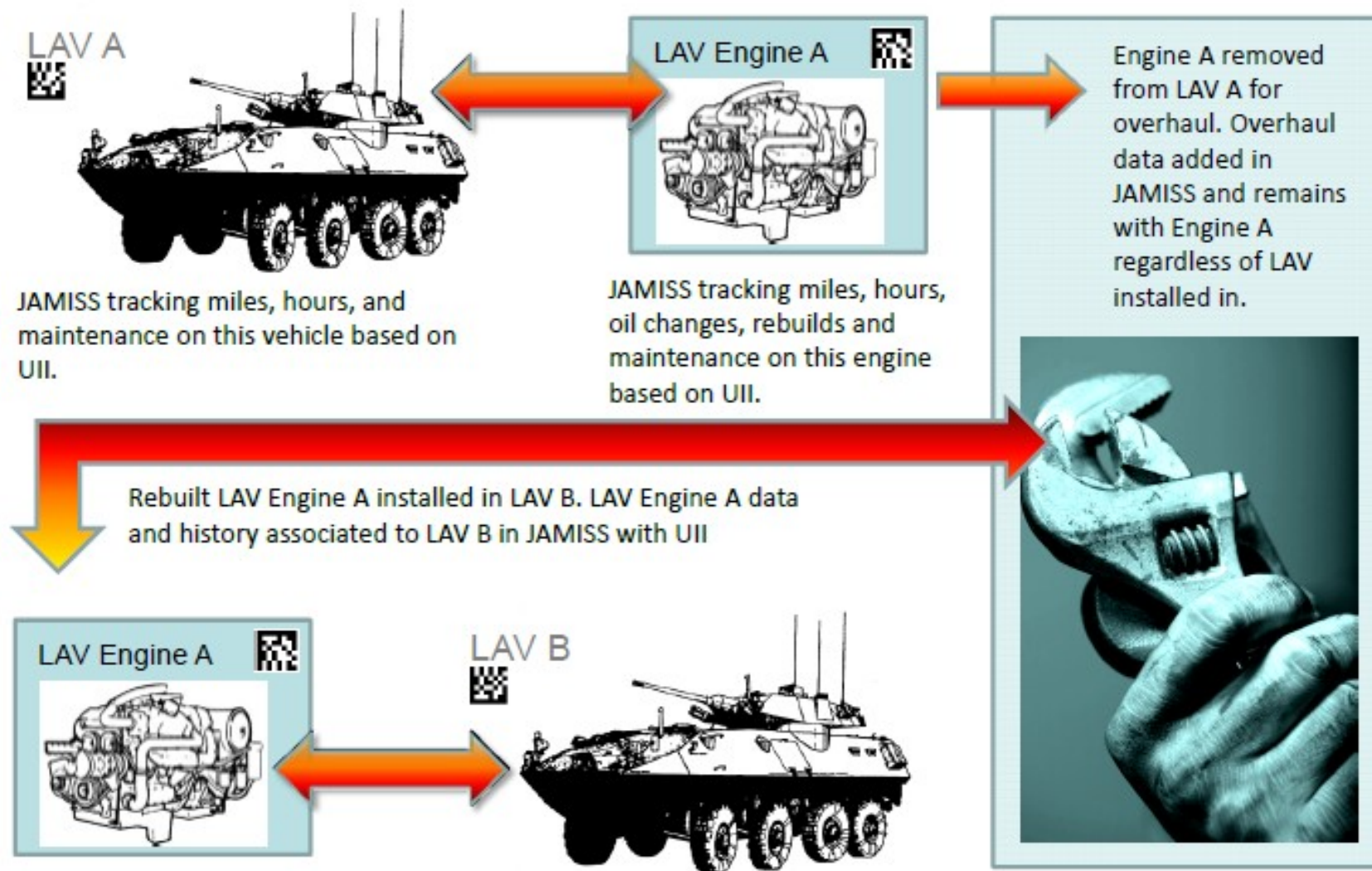
How User was Identified: SCANNED CAC BARCODE

How System was Identified: SCANNED 2D BARCODE





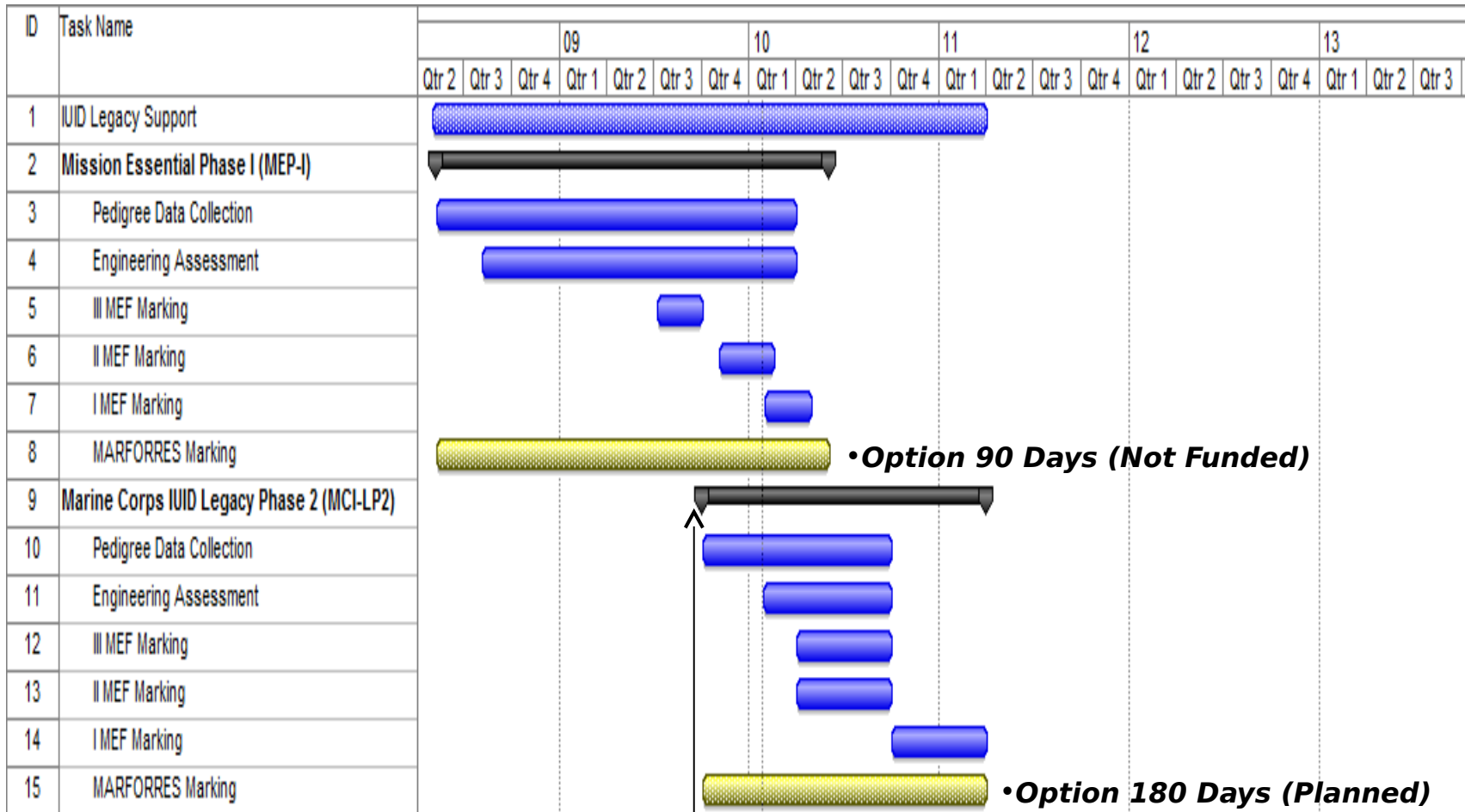
# LAVs deploy with JAMISS





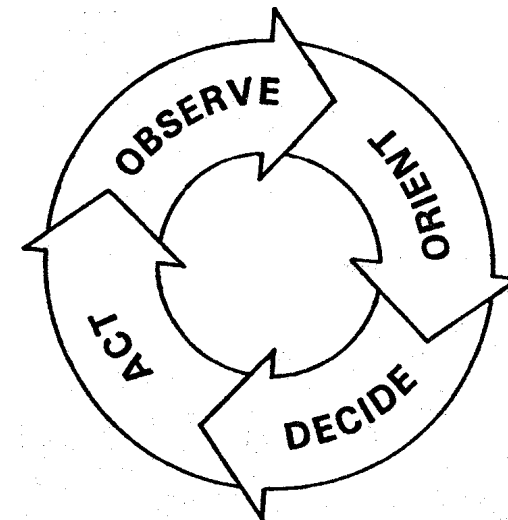


# USMC IUID Legacy Schedule



# Is My Stuff Ready for Combat?

- Readiness
- Predictive vs. Reactive conditions
- Top down planning, bottom up refinement
  - Forecast depot maintenance requirements
  - PEI Rotation
- Total Life Cycle Management
  - Cradle to grave equipment tracking
- Maintenance cycle time

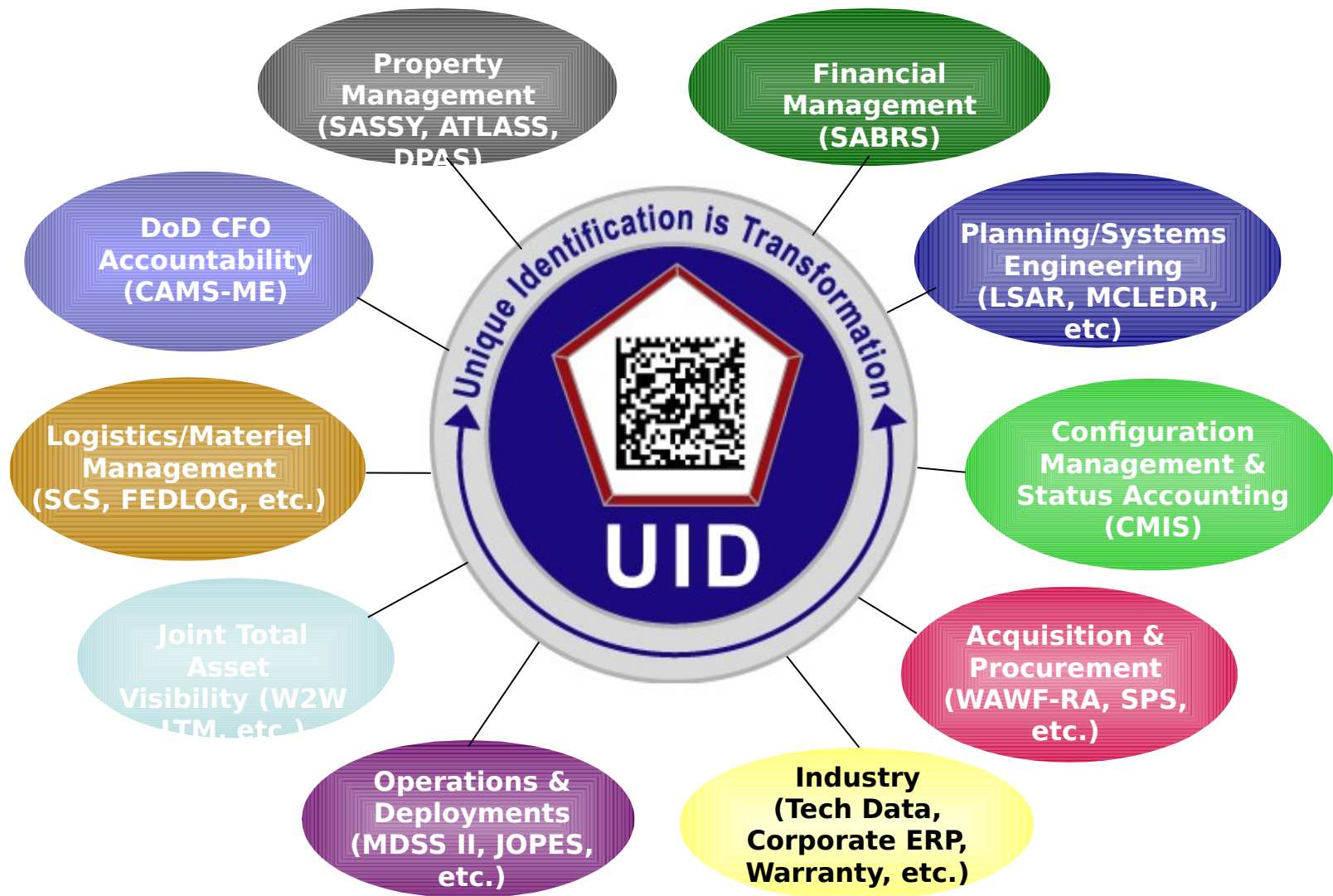


# Where's My Stuff?

- In-Transit Visibility (ITV)
  - pRFID
- Process Automation
  - e.g. Armory
- Serialized Item Management (S
  - Accountability
  - More intensive management
    - Equipment health
    - Maintenance history
    - Configuration
    - Warranty management
    - Location



# Data Sources Requiring UID Relation



is the **CRITICAL LINK** to relate Item data among it's many, diverse users